In the Claims:

The following listing of claims replaces all prior listings of claims in the application:

(Original) A method of turbo-charger surge detection comprising:
 measuring a rate of air flow through a turbo-charger compressor;
 measuring a temperature of said air flow;

calculating a standard mass flow rate of said air flow at said rate and said temperature;

measuring a pressure ratio across said turbo-charger compressor;
calculating a surge mass flow rate at a surge line of said compressor at said
pressure ratio;

comparing said standard mass flow rate to said surge mass flow rate; and reducing an EGR flow if said standard mass flow rate is lower than said surge mass flow rate.

- 2. (Original) The method of turbo-charger surge detection of claim 1, comprising further: adding a surge margin to said surge mass flow rate.
- 3. (Original) The method of turbo-charger surge detection of claim 1, comprising further: reducing said pressure ratio by opening a vane of said compressor.
- 4. (Currently Amended) A method of turbo-charger surge detection comprising: measuring a rate of air flow through a turbo-charger compressor; measuring a temperature of said air flow; calculating a standard mass flow rate of said air flow at said rate and said temperature;

measuring a pressure ratio across said turbo-charger compressor;
calculating a surge mass flow rate at a surge line of said compressor at said
pressure ratio;

comparing said standard mass flow rate to said surge mass flow rate; and

reducing said pressure ratio by opening a vane of said compressor <u>and reducing</u> <u>an EGR flow</u> if said standard mass flow rate is lower than said surge mass flow rate.

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